

C. F. KELLER.
Grain Toller.

No. 78,099.

Patented May 19, 1868.

Fig. 1.

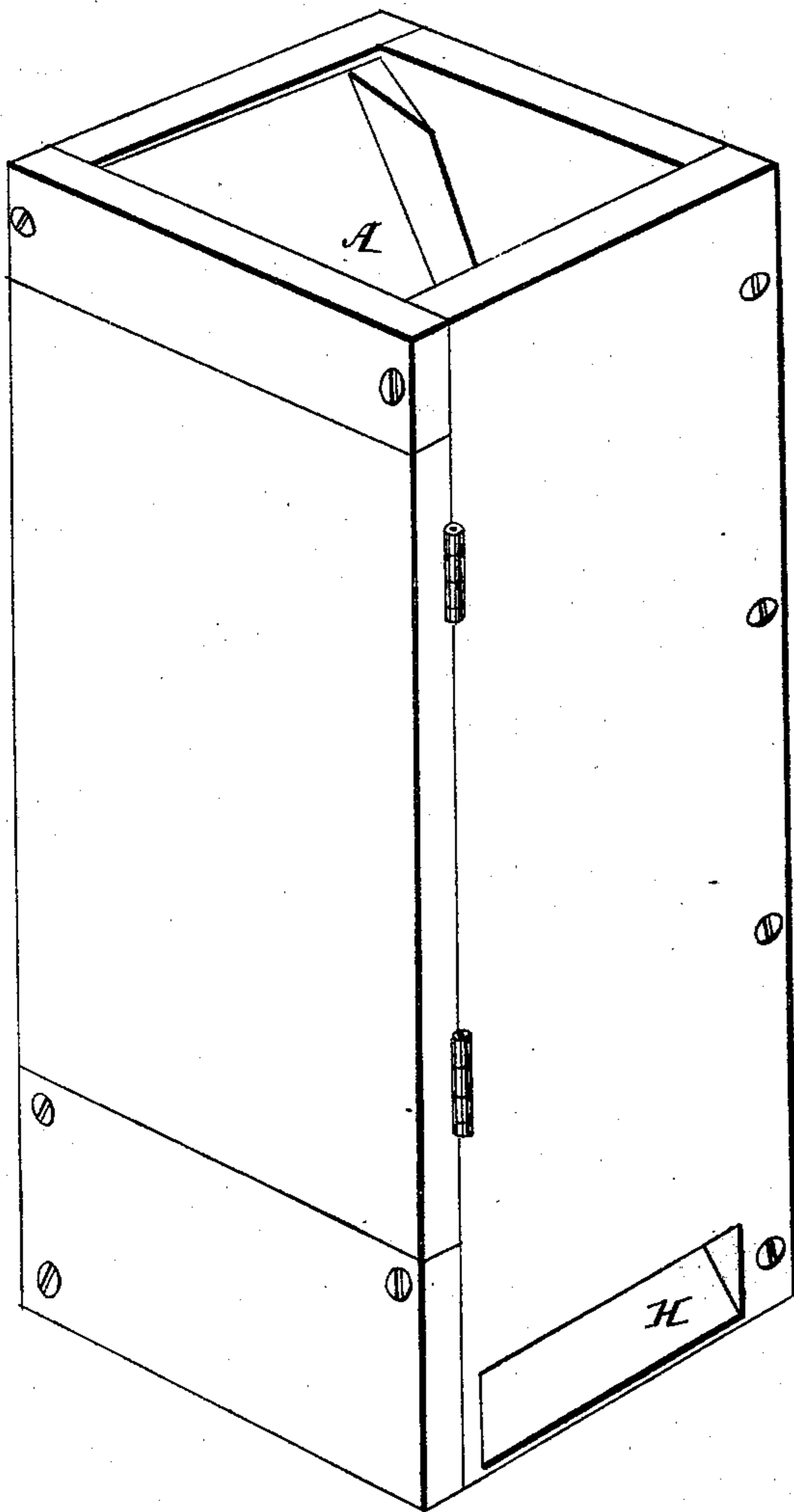
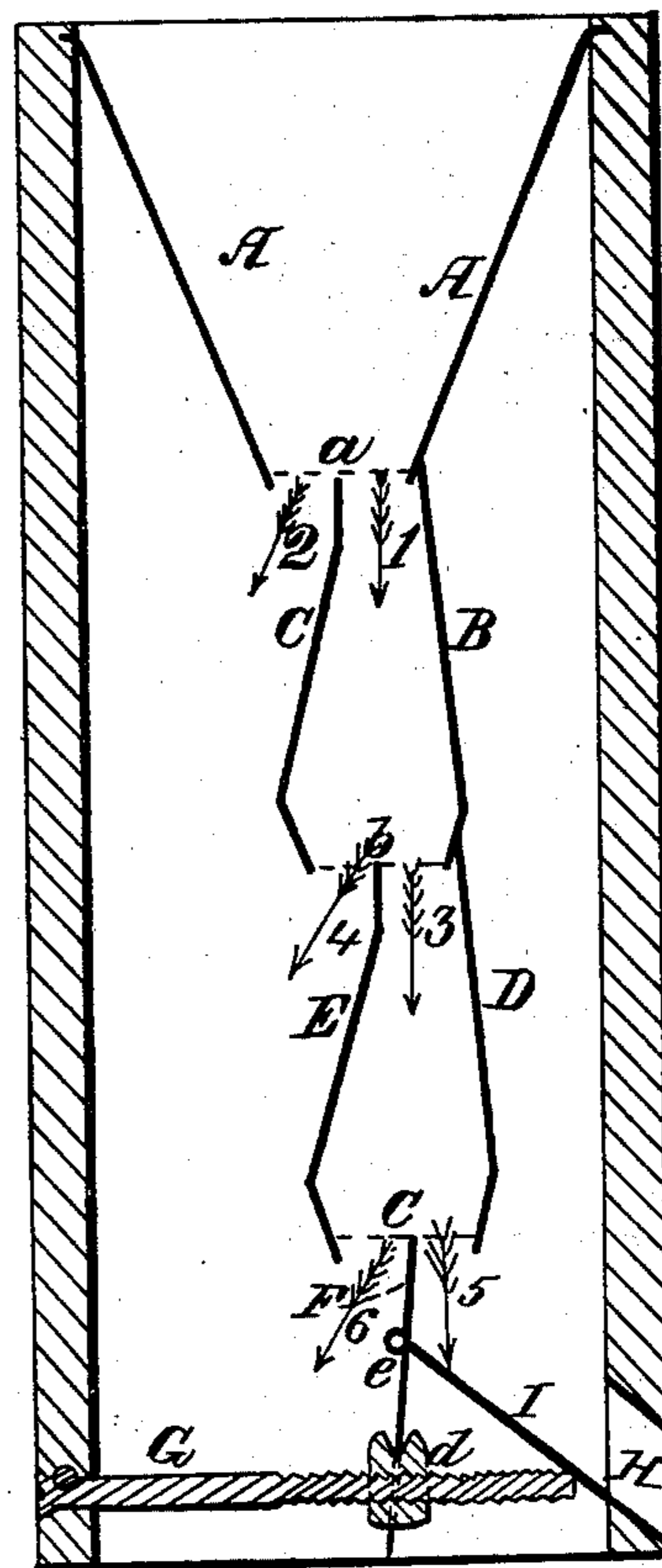


Fig. 2.



Witnesses:

J. D. Patten
J. H. Lyphard

Inventor:

C. F. Keller.
By Atty. A. B. Stoughton

United States Patent Office.

C. F. KELLER, OF NEVADA, OHIO.

Letters Patent No. 78,099, dated May 19, 1868.

IMPROVED MACHINE FOR TAKING THE TOLL FROM GRAIN IN GRIST-MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. F. KELLER, of Nevada, in the county of Wyandot, and State of Ohio, have invented certain new and useful Improvements in a Machine for Taking the Toll from Grain in Grist-Mills and elsewhere; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents, in perspective, a view of the exterior of the machine, and

Figure 2 represents a vertical section through the same.

My invention relates to a machine, by which, in running the grain through it, a subdivision or fractional part thereof, termed, in mills, the toll, may be taken from the passing grain, and carried out or off at a separate place from the main body of the grain.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

In the drawings, I have represented the apparatus as arranged in a spout. In practice I propose to cast the whole together in one piece, except the movable portions, viz, the adjustable valve, and a gate at the toll-exit, when used, so that the machine may be set in any ordinary grain-spout or hopper already constructed.

The upper section is composed of two inclining-plates, A A, forming a hopper, with an opening, *a*, at the end of the hopper. The next section below this is composed of two plates or pieces, B C, of which the one, B, may be a continuation of one of the hopper-plates, and the other, C, is placed directly under the centre of the opening or grain-way, *a*, so that the grain, dropping through the opening *a*, shall be divided into two equal parts, one part taking the direction of the arrow 1, and the other part the direction of the arrow 2. The plate or division-piece, C, is so shaped as to give proper direction to the columns of grain on each side of it. Below this second section there is a third one, composed of the plates D E, the one, D, being a continuation of the plates A B, and the other one, E, placed directly under the centre of the passage *b*, so that the grain passing through the opening *b* shall again be subdivided into two parts, one part taking the direction of the arrow 3, and the other part the direction of the arrow 4. Below the plates D E there is an adjustable division or partition, F, which I have termed a valve, and which again subdivides the column of grain falling upon or past it, and the object of the adjustability of this valve is, that the toll may be one-eighth or one-tenth of the amount passed through, or such other proportion as the custom of the country allows. The valve F is moved by a screw, G, from the exterior of the trough or hopper, through a nut, *d*, to which the lower end of the valve is attached; said valve being hinged at *e*.

The operation of the machine will be readily understood from the drawings. The whole quantity is separated into two equal parts at *a*. The half falling in the direction of the arrow 1 is again divided into two parts at *b*, and the quarter (of the whole) is again divided into two (or eighths) at *c*, or such other portions as the valve may be set for. The quantity passing off at the arrows 2, 4, 6, goes to the stones, or elsewhere if preferred, and the portion from which the toll is taken passes by the arrows 1, 3, 5, and the toll, whether an eighth, tenth, or other fractional part, may pass out at H, after falling on the chute-board, I. At H there may be a gate, which, when closed, will run all the grain to the stones when it is not to be tolled, and which, when open, allows the tolled portion to pass out thereat. A piece of glass may be inserted in the spout or hopper, that the attendant may observe the working of the machine.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

A machine for tolling grain as it passes through it, and composed of a series of divided passages, and guiding and directing-partitions, as and for the purpose described and represented.

C. F. KELLER.

Witnesses:

P. J. MINICH,

NEWTON L. MYERS.